

General Chair Greeting

The development of agro-industry is something that should be augmented and reinforced as this sector has been regarded to have a significant contribution to economic growth. The agro-industrial sector provides plenty of opportunities for transforming its comparative advantages into competitive ones because of its linkages to both upstream and downstream industries. Nevertheless, there are some aspects in agro-industry that should be strengthened and improved particularly to enter the current era of industry 4.0.

Industry 4.0 was marked by a rapid pace of transformation in which the aspect of technological mastery become the key determinants of competitiveness. Some technologies especially digital ones such as Artificial Intelligence, Big Data, and Internet of Things (IoT) have become the main technology that supports the implementation of industry 4.0. In the agro-industrial sector, the digital transformation will bring many changes with all the consequences. The integration between digitalization and agro-industry (Agro-industry 4.0) is projected to further maximize the potential development of business and innovation, as well as to improve the process and delivery of its value. This opportunity is also expected to potentially allow agro-industry to be more sustainable and conserved its presence.

Trying to enrich the synergy development of agro-industry 4.0, the Department of Agro-industrial Technology, Universitas Gadjah Mada, Indonesia is initiating a contribution to the development of agro-industry that is capable to meet changing market requirement, both nationally and globally. Supported in a fund by Tetra Pak, Rajawali Nusantara Indonesia, Aneka Tambang, and Gruene Punkt, we proudly hold the 5th International Conference on Agro-Industry (ICoA) 2018: Agro-industry 4.0 – Digital Transformation on Agro-food Value Chains. This event is well joined by our distinguished colleagues from Udayana University, Ehime University, De La Salle Araneta University, Kasetsart University and International University of Japan. The ICoA 2018 had invited academics, professionals and researchers to presented and discussed the most recent developments and future trends in agro-industry from various aspects. Thus, we hope that the ICoA 2018 will immensely benefits for the development of agro-industrial sector.

Finally, we would like to express our sincere gratitude to the editors, guest editors, scientific committee, and organizing committee for the valuable contribution upon the publication of this international proceedings.

Yogyakarta, September 2019

General Chair of ICoA

Dr. Adi Djoko Guritno